

# TracSmart

By Solar Steel

**TracSmart+** is the definitive tracking system solution. It is a Plus in nearly everything: more reliable, more capable, more cost efficient, more adaptable. Moreover, it requires less installation and maintenance efforts.

- > Single row trackers or combination of exposed single row trackers with sheltered dual row trackers.
- > One portrait configuration minimizing the ratio piles/MW
- > Suitable for larger size module (up to 2,45x1,14m)
- > Adaptable to Bifacial technology
- > Designed considering Dynamic-aeroelastic wind effects
- > Optimized foundation design
- > Conceived to withstand higher loads



YOUR MOST RELIABLE PARTNER IN SOLAR





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## SOLAR STEEL HEADQUARTERS

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## MECHANICAL & STRUCTURAL SPECIFICATIONS GENERAL FEATURES

<b>NAME/MODEL</b>	TracSmart+
<b>TRACKING TYPE</b>	HORIZONTAL AXIS TRACKER
<b>CONFIGURATION</b>	DUAL ROW TRACKER
<b>TRACKING RANGE</b>	Up to $\pm 60^\circ$
<b>MODULE CONFIGURATION</b>	ONE IN PORTRAIT - MAX. 2x60 MODULES/TRACKER
<b>SUPPORTED MODULES</b>	MONOFACIAL & BIFACIAL
<b>GENERAL DIMENSIONS ROW</b>	MAX $\approx$ 2.5m EAST-WEST MAX $\approx$ 72m NORTH-SOUTH
<b>TRACKER HEIGHT</b>	MAX $\approx$ 1,43m IN STOW POSITION
<b>NUMBER OF PILES</b>	19 PILES / TRACKER
<b>MATERIALS</b>	HDG STEEL, ZN COATED STEEL, ZN-AL-MG COATED STEEL
<b>FASTENERS</b>	HDG & STAINLESS STEEL OR EQUIVALENT
<b>DRIVE TYPE</b>	SLEW DRIVE
<b>MOTOR TYPE</b>	24V DC / <240W
<b>ANNUAL POWER CONSUMPTION</b>	SELF POWERED OPTION: 0 KWh/MWp EXTERNAL POWERED: $\approx$ 230-275 KWh/MWp
<b>GROUND COVERAGE RATIO</b>	ACCORDING TO PROJECT SPECIFICATIONS
<b>MAXIMUM GROUND SLOPE</b>	15% NORTH-SOUTH 10% EAST-WEST
<b>STANDARD WARRANTY</b>	5 YEARS ON CONTROL & DRIVE EQUIPMENT 10 YEARS STRUCTURE EXTENDABLE ADDITIONAL EXTENDED WARRANTY PLANS ON REQUEST

## DESIGN SPECIFICATIONS

<b>LOADS</b>	ASCE07-05, EUROCODE OR LOCAL STANDARDS
<b>STRUCTURAL OPTIMIZATION</b>	WIND TUNNEL & CFD (3RD PARTY CERTIFIED)

## CONTROL SYSTEM SPECIFICATIONS

<b>SOLAR TRACKING ALGORITHM</b>	ASTRONOMIC ALGORITHM
<b>BACKTRACKING</b>	YES
<b>TRACKING ACCURACY</b>	$\pm 2^\circ$
<b>NETWORK CONFIGURATION</b>	MASTER & SLAVES
<b>DATA FEED &amp; POWER SUPPLYING</b>	WIRELESS + SELF-POWERED & STRING-POWERED
<b>SCADA INTEGRATION</b>	YES
<b>WIND PROTECTION SYSTEM</b>	ADAPTATIVE STOW POSITION

## INSTALLATION & MAINTENANCE

<b>CONNECTIONS</b>	BOLTED CONNECTIONS
<b>INSTALLATION TOOLS</b>	STANDARD TOOLS
<b>ON-SITE MANUFACTURING WORKS</b>	NO
<b>INSTALLATION DOCUMENTATION</b>	ASSEMBLY DRAWINGS & INSTALLATION MANUAL
<b>FOUNDATION SYSTEM</b>	DRIVEN PILES, CONCRETE FOUNDATION OR ALTERNATIVE SOLUTIONS

## ADDITIONAL SERVICES

- > PULL OUT TEST
- > LOGISTICS
- > INSTALLATION
- > SUPERVISION
- > ON-SITE TRAINING
- > COMMISSIONING

NOTE: REFERENCE POWER MODULE: 2x78 CELLS - 600W  
DOCUMENT SUBJECT TO CHANGES OR MODIFICATIONS WITHOUT PRIOR NOTIFICATION